

ANTI-MICROBIAL-ADHESION FRACTION  
DERIVED FROM VACCINIUM

ABSTRACT OF THE DISCLOSURE

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10 A non-food anti-microbial-adhesion and aggregation  
composition comprising a suitable carrier and an  
effective amount of an adhesion inhibitory fraction  
isolated from juice from berries of the *Vaccinium* plant  
genus. In an embodiment the anti-aggregation and  
adhesion fraction is isolated from cranberry juice. It  
is characterized as being polymeric and having a  
molecular weight  $\geq 14,000$ ; an elemental analysis of  
carbon 43-51%, hydrogen 4-5%, no nitrogen, no sulfur  
15 and no chlorine; a nuclear magnetic resonance (NMR)  
line spectrum as set forth in Figures 2A and 2B; and an  
ultraviolet spectrum with an absorption peak at 280 nm  
in neutral or acidic pH solution which is absent in  
alkali solutions. This fraction exhibits adhesion  
20 inhibitory activity against P fimbriated bacteria, oral  
bacteria and *Helicobacter pylori*.

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